

## INTERNATIONAL SEARCH REPORT

Int'l	Application No
PCT/IB2004/004184	

A. CLASSIFICATION OF SUBJECT MATTER			
IPC 7	G11B7/125	G11B7/005	G02F3/02
			H01S3/23

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B G02F H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 26, 1 July 2002 (2002-07-01) -& JP 2001 242502 A (ATR ADAPTIVE COMMUNICATIONS RES LAB), 7 September 2001 (2001-09-07) abstract	1,3,4,6, 8
A	-----	2,7
X	GEORGE PAN Z ET AL: "OPTICAL INJECTION INDUCED POLARIZATION BISTABILITY IN VERTICAL-CAVITY SURFACE-EMITTING LASERS" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 63, no. 22, 29 November 1993 (1993-11-29), pages 2999-3001, XP000414956 ISSN: 0003-6951	1-4,6-8
A	-----	5
	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

14 February 2005

21/02/2005

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Moje, A

## INTERNATIONAL SEARCH REPORT

Inte  
ial Application No  
PCT/IB2004/004184

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 332 446 A (BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY) 13 September 1989 (1989-09-13) abstract -----	1-8
A	US 6 314 122 B1 (PEALE DAVID REESE) 6 November 2001 (2001-11-06) abstract -----	1-8
A	US 4 562 569 A (YARIV ET AL) 31 December 1985 (1985-12-31) abstract -----	1-8

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter  
nal Application No  
PCT/IB2004/004184

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 2001242502	A	07-09-2001	NONE		
EP 0332446	A	13-09-1989	AT	95644 T	15-10-1993
			AU	603295 B2	08-11-1990
			AU	3341289 A	05-10-1989
			CA	1309766 C	03-11-1992
			DE	68909642 D1	11-11-1993
			DE	68909642 T2	07-04-1994
			EP	0332446 A1	13-09-1989
			WO	8908937 A1	21-09-1989
			IE	61645 B1	16-11-1994
			JP	2503838 T	08-11-1990
			US	5012474 A	30-04-1991
US 6314122	B1	06-11-2001	NONE		
US 4562569	A	31-12-1985	NONE		